Rt. 1 Box 157-U
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WA. 98250

Dear Mr. Huber :

Thank you for the photographs and the outline of the procedure used by you in preparing blastoderms for electron-microscopy . As far as I can see at the moment , the procedure outline is clear and should prove very useful in " writing -up " this material .

The three sets of photographs (Stored for 12 weeks ; unincubated / Stored for 3 weeks ; unincubated / Non-stored i.e. " fresh " ; incubated 16 hours) at least in part help to fill the gap in the series at present under our study .

The matter of " desmosomes " is quite interesting , although I am still not certain about the appropriateness of that term for the structure in question. I have re-examined the previous photographs in regard to the presence or absence of " desmosomes " -- I must admit that we may be dealing with two different structures : a/ " constrictions " in the nuclear membrane and b/ small rectangular structures which appear next to or near to the nuclear membrane . The constrictions are very prominent in incubated specimens , especially in non-stored ones; they are much less prominent either in the non-stored non-incubated or in stored -incubated specimens . The rectangular structures seem to be as prevalent in the incubated specimens as in the unicubated ones (regardless of their " age ") . In the case of EMC-21R (3 week stored ; unincubated) I believe we are dealing with the rectangular structures rather than " desmosomes ". Incidentally , I don't seem to have EMC-21S (3 weeks + 5 hrs.) with me here , and thus can not make the necessary comparison between the two sets . This will have to wait until I get back to Pullman .

At this stage of the study I think we shall need two bits of information : higher magnification of mitochondria and of " desmosomes " in specimens according to the treatment used before fixation . ~~Thus far I seem to have one print of the next~~

Thus far I seem to have one photograph showing a " desmosome " at 52000 X (in EMC-21X ; fresh + 16 hrs) and only a couple of prints containing mitochondria at the same magnification .

The presence of round structures , to which you refer on a print of EMC-21X , also raises an obvious question as to their significance . Perhaps a higher magnification here also would be in order -- the print I have is at 13000X .

Within the next few days I plan to get over to the UW Lab . library in Friday Harbor to do some library " research " on EM of comparable material in other (than chicken) forms .

I hate to rub it in , but it has been cool here , never over 74deg. ; most of the time considerably below that . In fact it has been cool enough for a sweatshirt most of the time .

With best regards ,
sincerely

Igor Kosin